

Cuyahoga River Upstream of Rockside Road

September 14, 2021

River Mile: 13.15

Station ID: 502020

Collection Method: Boat Electrofishing

Drainage Area: 703 miles²

Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	50	0.46	--	0	---
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	0.45	--	0	---
40-005	<i>Carpionodes cyprinus</i> Central quillback carpsucker	5	0.06	--	0	---
40-008	<i>Moxostoma anisurum</i> Silver Redhorse	1	1.52	Moderately Intolerant	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	2	0.032	Moderately Intolerant	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	1	1.15	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	9	0.88	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.03	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	14	36.287	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	2	0.018	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	19	0.053	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	95	0.73	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	248	0.877	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	70	0.15	Moderately Intolerant	0	---
43-039	<i>Ericymba buccata</i>	2	0.008	--	0	---

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Silverjaw minnow

43-043	<i>Pimephales notatus</i> Bluntnose minnow	11	0.05	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	15	0.26	--	1	Erosion
47-002	<i>Ictalurus punctatus</i> Channel catfish	13	2.703	--	0	---
47-007	<i>Pylodictis olivaris</i> Flathead Catfish	6	1.9	--	0	---
74-003	<i>Morone americana</i> White perch	4	0.04	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	12	1.6	Moderately Intolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	2	0.035	Moderately Tolerant	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	5	0.11	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.002	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	3	0.01	Moderately Intolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	3	3.4	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	9	0.07	--	0	---
Totals		<u>604</u>	<u>52.885</u>		<u>1</u>	

*DELT anomalies were observed on	0.17	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.7	(Good)
Shannon Diversity Index, no.	2.099	
Shannon Diversity Index, wt.	1.385	
N	1124	
B	31.88	

Cuyahoga River Upstream of Southerly WWTC

September 13, 2021

River Mile: 10.75

Station ID: F01A25

Collection Method: Boat Electrofishing

Drainage Area: 743 miles²

Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	4	0.018	--	0	---
40-005	<i>Carpodes cyprinus</i> Central quillback carpsucker	1	1.361	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	4	0.034	Moderately Intolerant	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	4	1.56	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	2	0.21	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	13	0.831	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	1	0.159	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	1	0.005	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	8	0.028	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	16	0.094	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	3	0.008	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	3	0.012	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	5	0.02	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	5	6.804	--	0	---
47-004	<i>Ictalurus natalis</i>	3	0.176	Highly	0	---

Cuyahoga River Upstream of Southerly WWTC

September 13, 2021

River Mile: 10.75

	Yellow bullhead			Tolerant		
70-001	<i>Labidesthes sicculus</i> Brook silverside	1	0.005	Moderately Intolerant	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	23	7.306	Moderately Intolerant	1	Lesion
77-008	<i>Lepomis cyanellus</i> Green sunfish	3	0.028	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	0.12	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	1	0.03	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	5	0.092	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	2	0.006	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	1	0.003	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	9	0.089	--	0	---
	Totals	<u>119</u>	<u>18.999</u>		<u>1</u>	

*DELT anomalies were observed on	0.84 % of the fish collected.
Index of Biotic Integrity (IBI) =	36 (Marginally Good)
Modified Index of Well-Being (MIwb) =	8.7 (Marginally Good)
Shannon Diversity Index, no.	2.737
Shannon Diversity Index, wt.	1.579
N	172
B	35.4

Cuyahoga River Upstream of Big Creek
September 13, 2021
River Mile: 8.60
Station ID: 200025
Collection Method: Boat Electrofishing
Drainage Area: 745 miles²
Collection Distance: 0.5 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	137	1.17	--	0	---
40-008	<i>Moxostoma anisurum</i> Silver Redhorse	2	5.443	Moderately Intolerant	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	3	0.017	Moderately Intolerant	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	12	3.035	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	7	1.02	Moderately Intolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	6	0.03	--	0	---
43-026	<i>Notropis cornutus</i> Common shiner	17	0.055	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	5	0.01	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	1	0.003	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	26	0.032	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	2	0.004	Common Intolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.003	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	10	0.012	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	3	0.01	--	0	---
47-002	<i>Ictalurus punctatus</i>	8	5.461	--	0	---

**Cuyahoga River Upstream of Big Creek
September 13, 2021**

River Mile: 8.60

Channel catfish

47-007	<i>Pylodictis olivaris</i> Flathead Catfish	1	0.63	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	8	3.23	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	0.58	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	8	0.13	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	1	0.004	Moderately Intolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	0.34	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	14	0.05	--	0	---
Totals		<u>274</u>	<u>21.269</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	8.9	(Good)
Shannon Diversity Index, no.	2.006	
Shannon Diversity Index, wt.	1.938	
N	498	
B	42.41	